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# PHILOSOPHICAL TRANSACTIONS.

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Monday, Novemb. 6. 1665.

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## The Contents.

*An Account of a not ordinary Burning Concave, lately made at Lyons, and compared with several others made formerly. Of Monsieur Hevelius his promise of communicating to the World his Invention of making Optick Glasses; and of the hopes, given by Monsieur Christian Hugen of Zalichem, to perform something of the like nature; as also of the Expectations, conceived of some Persons in England, to improve Telescopes. An Intimation of a way of making more lively Counterfeits of Nature in Wax, then are extant in Painting; and of a new kinde of Maps in a low Relievo, or Sculpture, both practised in France. Some Anatomical Observations, of Milk found in Veins instead of Blood; and of Grasse, found in the Wind-pipes of some Animals. Of a place in England, where, without petrifying Water, Wood is turn'd into Stone. Of the nature of a certain Stone, found in the Indies in the head of a Serpent. Of the way, used in the Mogol's Dominions, to make Saltpetre. An Account of Hevelius his Prodrumus Cometicus, and of some Animadversions made upon it by a French Philosopher; as also of the Jesuit Kircher's Mundus Subterraneus.*

*An Account of a not ordinary Burning Concave, lately made at Lyons, and compared with several others made formerly.*

**A**N opportunity being presented to revive the publishing of these Papers, which for some Moneths hath been  
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discontinued by reason of the great Mortality in *London*, where they were begun to be Printed; it hath been thought fit to embrace the same, and to make use thereof for the gratifying of the Curious, that have been pleased to think well of such Communications: To re-enter whereupon, there offers it self first of all a Relation of an un common *Burning Glass*, not long since made in *France*, in the City of *Lyons*, by one called *Monsieur de Vilette*, as it was sent to the *Publisher* of these *Traicts*, in two Letters, whereof the one was in *Latine*, the other in *French*, to this effect:

Concerning the Efficacy of *Monsieur de Vilette* his *Burning Glass*, all what the *P. Bertit* hath written of it, is true. We have seen the Effects of it repeated over and over again, in the Morning, at Noon, and in the After-noon, always performing very powerfully; burning or melting any Matter, very few excepted. The *Figure* of it is round, being thirty Inches, and somewhat better, in *Diameter*. On one side it hath a Frame of a circle of Steel, to the end that it may keep its just Measure: 'Tis easie to remove it from place to place, though it be above an hundred weight, and 'tis easily put in all sorts of postures. The *burning Point* is distant from the Centre of the Glass, about three Feet. The *Focus* is about half a *Louys d'or* large. One may pass ones hand through it, if it be done nimbly; for if it stay there the time of a second Minute, there is danger of receiving much hurt.

*Green wood* takes fire in it, in an instant, as do also many other Bodies.

A small piece of <i>Pot-Iron</i> was melted, and ready to drop down, in	<i>Seconds.</i> 40.
A <i>Silver Piece</i> of 15 Pence was pierced, in	24.
A <i>gross Nail</i> (called <i>le Clou de paisan</i> ) was melted, in	30.
The end of a <i>Sword-blade</i> of <i>Olinde</i> , was burn'd, in	43.
A <i>Brass Counter</i> was pierced, in	06.
A piece of <i>red Copper</i> was melted, ready to drop down, in	42.
	A piece

A piece of a <i>Chamber Quarry-stone</i> was vitrified,	<i>sec.</i>
and put into a <i>Glass-drop</i> , in	45.
<i>Steel</i> , whereof <i>Watch-makers</i> make their springs,	
was found melted, in	09.
A <i>Mineral-stone</i> , such as is used in <i>Harquebusses</i>	
<i>à rouët</i> , was calein'd and vitrified, in	1. <i>juſt.</i>
A piece of <i>Morter</i> was vitrified, in	52.

In thore, there is hardly any Body, which is not destroyed by the Fire. If one would melt try it any great quantity of *Meiral*, that would require much time, the Action of Burning not being perform'd but within the bigueſs of the *Focus*, ſo that ordinarily none but ſmall pieces are expoſed to it. One *Monſieur d'Alibert* buys it, paying for it Fifteen hundred *Livres*.

Since this Information, there were, upon occaſion given from hence, upon the ſame ſubject, further communicated from *Paris* the following Particulars :

I ſee by two of the Letters, that you incline to believe, the *Glaſſes* of *Maginus* and *Septalius* do approach to that of *Lyons* : But I can aſſure you, they come very far ſhort of it. You may conſult *Maginus* his Book, where he deſcribes his ; and there are ſome Perſons here that have ſeen one of his beſt, which had but about twenty Inches *diameter* ; ſo that this of *Lyons* muſt perform at leaſt twice as much. As to *Septalius*, we expect the Relations of it from Intelligent and Impartial Men. It cannot well be compared to that of *Lyons*, but in bigueſs ; and in this caſe, if it have five *Palms* (as you ſay) that would be about  $3\frac{1}{2}$  feet *French*, and ſo it were a Foot bigger, which would make it half as much greater in ſurface : But as to the Effects, ſeeing it burns ſo far off, they cannot be very violent. And I have heard one ſay, that had ſeen it, that it did not ſet Wood on Fire but after the time of ſaying a *Miferere*. You may judge of the difference of the Effects, ſince that of *Lyons* gathers its Beams together within the ſpace of ſeven or eight *Lines* ;

and that of *Septalius* must scatter them in the compass of three Inches. Some here do intend to make of them, yea and bigger ones ; but we must stay till they be done, &c.

*Of Monsieur Hevelius's Promise of imparting to the World his Invention of making Optick Glasses; and of the hopes given by Monsieur Hugen of Zulichem, to perform something of the like nature; as also of the Expectations, conceived of some Ingenious Persons in England, to improve Telescopes.*

That eminent Astronomer of *Dintzick*, Monsieur *Hevelius*, writes to his Correspondent in *London*, as followeth :

What hath been done in the grinding of Optick glasses in your parts, and how those beginnings, mention'd by you formerly, do continue and succeed, I very much covet to hear. 'Tis now above ten Years, since I my self invented a peculiar way of grinding such Glasses, and reduced it also into practise ; by which 'tis easie, without any considerable danger of failing, to make and polish Optick glasses of any *Conick* Section, and that (which is most notable) in any dish of any Section of a *Sphere* : which Invention I have as yet discovered to none, my purpose being, for the Improvement of Natural Knowledge, to describe the whole method thereof in my *Celestial Machine*, and to propose it to the Examination and Judgement of the *Royal Society* ; not doubting at all, but they will finde the way true and practicable, my self having already made several Glasses by it, which many Learned Men have seen and tried.

Monsieur *Hugen*, inquiring also in a Letter, newly written by him to a Friend of his in *England*, of the success of the attempts made by an Ingenious *Englisb* Man for perfecting such Glasses, and urging the prosecution of the same,

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